

COC# 150

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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(541) 383-9310

FAX 420-9210 924-9290

(503) 906-9200

FAX 906-9210 FAX 382-7588

# CHAIN OF CUSTODY REPORT

Work Order #: M1 07015

CLIENT: BRISTOL	Ministration (					INVOICE TO:							TURNAROUND REQUEST in Business Days*					ıys*			
REPORT TO: AME	KRANA	WETTE	ER			BR	151	00	Marine .							Organic & Inorganic Analyses  10 7 5 4 4 3 2 1 < 1					
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/04/01 19:19. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

**Environmental Group Leader** 

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Work Orders included in this report:

M107015



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

07/10/01 09:53

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMB989SL	M107015-01	Soil	07/04/01 17:25	07/04/01 19:19
01AMB990SL	M107015-02	Soil	07/04/01 17:30	07/04/01 19:19
01AMB991SL	M107015-03	Soil	07/04/01 17:40	07/04/01 19:19
01AMB992SL	M107015-04	Soil	07/04/01 17:45	07/04/01 19:19

COC #150

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

07/10/01 09:53

## Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB989SL (M107015-01) Soil					Sampled: 07/	/04/01 Rece	eived: 07/04/	01	
<b>Diesel Range Organics</b>	4150	150	mg/kg dry	1	AK 102	07/09/01	07/09/01	0107035	
Surr: 1-Chlorooctadecane Surr: Triacontane	80.3 % 59.9 %	50-150 50-150							
01AMB990SL (M107015-02) Soil					Sampled: 07/	/04/01 Rece	ived: 07/04/	01	
<b>Diesel Range Organics</b>	1440	150	mg/kg dry	1	AK 102	07/09/01	07/09/01	0107035	
Surr: 1-Chlorooctadecane Surr: Triacontane	63.1 % 79.7 %	50-150 50-150							
01AMB991SL (M107015-03) Soil					Sampled: 07/	/04/01 Rece	ived: 07/04/	01	
Diesel Range Organics	163	150	mg/kg dry	1	AK 102	07/09/01	07/09/01	0107035	
Surr: 1-Chlorooctadecane Surr: Triacontane	82.6 % 103 %	50-150 50-150							

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 07/10/01 09:53

## BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

		in Citch i			one Euo				
Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB989SL (M107015-01) Soil					Sampled: 07/0	4/01 Rece	eived: 07/04/	01	
Benzene	ND	0.0606	mg/kg dry	50	!1B BTEX/MTI	07/06/01	07/06/01	0107027	
Toluene	ND	0.243	"	"	"	"	"	"	
Ethylbenzene	ND	0.243	"	"	"	"	"	"	
Xylenes (total)	ND	0.485	"	"	"	"	"	"	
Naphthalene	ND	2.43	"	"	"	"	"	"	
Surr: 4-BFB	77.5 %	50-150							
01AMB990SL (M107015-02) Soil					Sampled: 07/0	4/01 Rece	eived: 07/04/	01	
Benzene	ND	0.0551	mg/kg dry	50	!1B BTEX/MTI	07/06/01	07/06/01	0107027	
Toluene	ND	0.220	"	"	"	"	"	"	
Ethylbenzene	ND	0.220	"	"	"	"	"	"	
Xylenes (total)	ND	0.441	"	"	"	"	"	"	
Naphthalene	ND	2.20	"	"	"	"	"	"	
Surr: 4-BFB	79.2 %	50-150							
01AMB991SL (M107015-03) Soil					Sampled: 07/0	4/01 Rece	eived: 07/04/	01	
Benzene	ND	0.0470	mg/kg dry	50	!1B BTEX/MTI	07/06/01	07/06/01	0107027	
Toluene	ND	0.188	"	"	"	"	"	"	
Ethylbenzene	ND	0.188	"	"	"	"	"	"	
Xylenes (total)	ND	0.376	"	"	"	"	"	"	
Naphthalene	ND	1.88	"	"	"	"	"	"	
Surr: 4-BFB	72.6 %	50-150							
01AMB992SL (M107015-04) Soil					Sampled: 07/0	4/01 Rece	eived: 07/04/	01	
Benzene	ND	0.130	mg/kg dry	50	!1B BTEX/MTI		07/06/01	0107027	
Toluene	ND	0.522	"	"	"	"	"	"	
Ethylbenzene	ND	0.522	"	"	"	"	"	"	
Xylenes (total)	ND	1.04	"	"	"	"	"	"	
Naphthalene	ND	5.22	"	"	"	"	"	"	
Surr: 4-BFB	92.3 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

07/10/01 09:53

## Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Dilution	Method Pr	epared	Analyzed	Batch	Notes
01AMB989SL (M107015-01) Soil				Sampled: 07/04/0	1 Rece	ived: 07/04/0	01	
% Solids	77.0	0.0100 % by Weig	ght 1	Gravimetric 07	/06/01	07/07/01	0107028	
01AMB990SL (M107015-02) Soil				Sampled: 07/04/0	1 Rece	ived: 07/04/0	01	
% Solids	77.0	0.0100 % by Weig	ght 1	Gravimetric 07	/06/01	07/07/01	0107028	
01AMB991SL (M107015-03) Soil				Sampled: 07/04/0	1 Rece	ived: 07/04/0	01	
% Solids	75.4	0.0100 % by Weig	ght 1	Gravimetric 07	/06/01	07/07/01	0107028	
01AMB992SL (M107015-04) Soil				Sampled: 07/04/0	1 Rece	ived: 07/04/0	01	
% Solids	100	0.0100 % by Weig	ght 1	Gravimetric 07	/06/01	07/07/01	0107028	

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

**Reported:** 07/10/01 09:53

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

### Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

#### **North Creek Analytical - Mobile Lab**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Analyte	Result	Limit Omis	Level	Result	/0KEC	Limits	KLD	Lillit	Notes
Batch 0107035 - 3545 ASE									
Blank (0107035-BLK1)			Prepare	ed & Analy	zed: 07/0	9/01			
Diesel Range Organics	ND	150 mg/kg wet							
Surr: 1-Chlorooctadecane	18.2	"	23.7		76.8	50-150			
Surr: Triacontane	13.6	"	23.5		57.9	50-150			
LCS (0107035-BS1)			Prepare	d & Analy	zed: 07/0	9/01			
Diesel Range Organics	1300	150 mg/kg wet	1250		104	75-125			
Surr: 1-Chlorooctadecane	18.9	"	23.7		79.7	50-150			
Surr: Triacontane	14.8	"	23.5		63.0	50-150			
LCS Dup (0107035-BSD1)			Prepare	d & Analy	zed: 07/0	9/01			
Diesel Range Organics	1270	150 mg/kg wet	1250		102	75-125	2.33	20	
Surr: 1-Chlorooctadecane	23.0	"	23.7		97.0	50-150			
Surr: Triacontane	15.7	"	23.5		66.8	50-150			
Matrix Spike (0107035-MS1)	Sour	ce: M107012-01	Prepare	d & Analy	zed: 07/0	9/01			
Diesel Range Organics	1020	150 mg/kg dry	1380	ND	72.0	60-140			
Surr: 1-Chlorooctadecane	25.3	"	26.1		96.9	50-150			
Surr: Triacontane	27.9	"	25.9		108	50-150			

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering

Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

07/10/01 09:53

#### BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

### North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0107027 - MeOH Extraction						
Blank (0107027-BLK1)			Prepared &	Analyzed: 07/0	6/01	
Benzene	ND	0.0250 mg/kg wet				
Toluene	ND	0.100 "				
Ethylbenzene	ND	0.100 "				
Xylenes (total)	ND	0.200 "				
Naphthalene	ND	1.00 "				
Surr: 4-BFB	2.37	"	2.50	94.8	50-150	
LCS (0107027-BS1)			Prepared &	Analyzed: 07/0	6/01	
Benzene	2.04	0.0250 mg/kg wet	2.50	81.6	69-138	
Toluene	2.21	0.100 "	2.50	88.4	53-151	
Ethylbenzene	2.50	0.100 "	2.50	100	61-141	
Xylenes (total)	7.11	0.200 "	7.50	94.8	62-141	
Naphthalene	2.76	1.00 "	2.50	110	65-135	
Surr: 4-BFB	2.59	"	2.50	104	50-150	

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Project: Amchitka

2000 W International Airport C#1 Project Number: 21090

Reported:

07/10/01 09:53

Project Manager: Anne Kranawetter

#### **Notes and Definitions**

DET Analyte DETECTED

Anchorage, AK 99502-1116

Bristol Environmental & Engineering

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

### **Items for Project Manager Review**

LabNumber	Analysis	Analyte	Exception
			Report recreated from:
			\\sisters\elmnt\Report\M107015 FINAL 07 10 01
			0953.mdb
			Default Report (not modified)